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WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO



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Collaborating with

COLORADO STATE UNIVERSITY EXPERIMENT STATION
STATE ENGINEER of COLORADO
and STATE ENGINEER of NEW MEXICO

AS OF
MAY 1, 1974

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Cover Photo: Snow Surveyors near Ship Creek, Alaska snow course.

Photo A-272-11

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and tor British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

U. S. DEPARTMENT of AGRICULTURE
CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY
SOIL CONSERVATION SERVICE

USDA SCS PORTLAND OREG 1973

WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

KENNETH E. GRANT
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

Released by

M. D. BURDICK
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
DENVER, COLORADO

MARION E. STRONG
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
ALBUQUERQUE, NEW MEXICO

In Cooperation with

JOHN PATRICK JORDAN
DIRECTOR
C S U
EXPERIMENT STATION

S. E. REYNOLDS
STATE ENGINEER
STATE OF NEW MEXICO

C. J. KUIPER
STATE ENGINEER
STATE OF COLORADO

Report prepared by

JACK N. WASHICHEK, Snow Survey Supervisor
and
RONALD E. MORELAND, Assistant Snow Survey Supervisor

SOIL CONSERVATION SERVICE
SNOW SURVEY UNIT
P.O. BOX 17107
DENVER, COLORADO 80217

USDA-SCS-PORTLAND, OREG. 1973: M7-0-22022-8

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WATERSHED II - ARKANSAS RIVER WATERSHED

Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Horse-Rush Creek, Central Colorado, Turkey Creek, Pueblo, Bessemer, Olney Bone, Cheyenne, Upper Huerfano, Stonewall, Spanish Peaks, Purgatoire, Branson Trinchera, Western Baca, Southeastern Baca, Two Buttes, Bent, Timpas, Northeast Prowers, Prowers, Kiowa County, West Otero, East Otero, and Big Sandy Soil Conservation Districts.

WATERSHED III - RIO GRANDE WATERSHED (COLORADO)

Describes water supply conditions in Rio Grande, Center, Conejos, Mosco Hooper, Mt. Blanca, Sanchez, and Culebra Soil Conservation Districts.

WATERSHED IV - RIO GRANDE WATERSHED (NEW MEXICO)

Describes water supply conditions in Upper Chama, East Rio Arriba, Taos, Lindrith, Jemez, Santa Fe - Pojoaque, Sandoval, Tijeras, Cuba, and Edgewood Soil Conservation Districts.

WATERSHED V - DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED

Describes water supply conditions in San Miguel Basin. Dove Creek, Dolores, Mancos, LaPlata, Pine River, San Juan, San Miguel Basin, and Glade Park Soil Conservation Districts.

WATERSHED VI - GUNNISON RIVER WATERSHED

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WATERSHED VII - COLORADO RIVER WATERSHED

Describes water supply conditions in DeBeque, Plateau Valley, Lower Grand Valley, Bookcliff, Eagle County, Middle Park, Glade Park, Upper Grand Valley, South Side, and and Mt. Sopris Soil Conservation Districts.

WATERSHED VIII - YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED

Describes water supply conditions in Yampa, Moffat, West Routt, East Routt, North Park, White River, and Douglas Creek Soil Conservation Districts.

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Describes water supply conditions in Sedgwick, South Platte, Haxtun, Peetz, Padroni, Morgan, Rock Creek, and Yuma Soil Conservation Districts.

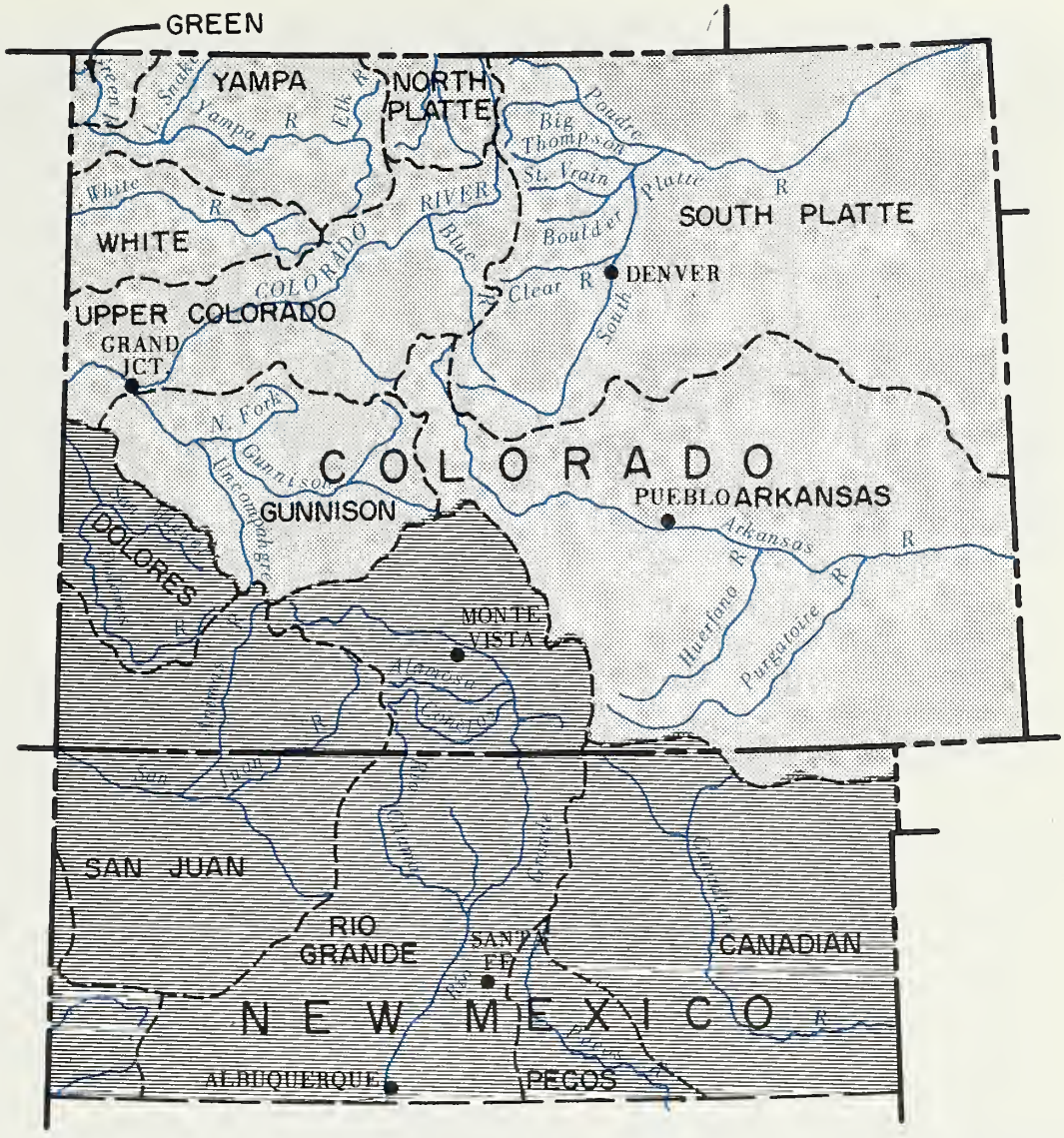
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WATER SUPPLY OUTLOOK

as of

MAY 1, 1974



GENERALLY ADEQUATE
100% OR MORE

LIMITED SHORTAGE
75% - 100%

SEVERE SHORTAGE
75% OR LESS

The map on this page indicates the most probable water supply as of the date of this report. Estimates assume average conditions of snow fall, precipitation and other factors from this date to the end of the forecast period. As the season progresses accuracy of estimates improve. In addition to expected streamflow, reservoir storage, soil moisture in irrigated areas, and other factors are considered in estimating water supply. Estimates apply to irrigated areas along the main streams and may not indicate conditions on small tributaries.

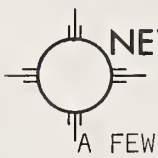
WATER SUPPLY CONDITIONS
as of
MAY 1, 1974

THE SNOWPACK OVER THE TWO STATES IS EXTREMELY HIGH IN NORTHERN COLORADO AND GRADUALLY DECREASES TO THE SOUTH. SOUTHERN COLORADO AND NORTHERN NEW MEXICO COULD EXPERIENCE SOME WATER SHORTAGE THIS SUMMER. THE NORTHERN PORTION OF COLORADO COULD EXPERIENCE SOME HIGH WATER IF THE SPRING TEMPERATURES ARE UNSEASONABLY WARM OR THE AREA RECEIVES RAIN ON THE LOW ELEVATION SNOWPACK. CARRY-OVER STORAGE IN THE TWO STATES IS AVERAGE TO SLIGHTLY ABOVE. FORECASTS ARE BASED ON AVERAGE PRECIPITATION DURING THE REMAINDER OF THE YEAR.



COLORADO

HEAVY SNOWFALL IN THE NORTHERN PORTION OF THE STATE HAS INCREASED THE STREAMFLOW FORECASTS THIS MONTH FROM 5 TO 25%. AREAS IN NORTHWEST COLORADO HAVE EXPERIENCED HIGH WATER BECAUSE OF THE LARGE AMOUNT OF LOW ELEVATION SNOW, WARM TEMPERATURES AND RAINFALL. CONTINUED WARM TEMPERATURES COULD RESULT IN MORE HIGH WATER. STREAMS IN THE CENTRAL PART OF THE STATE ARE FORECAST AT 75 TO 85%. WATER SUPPLIES MAY BE SHORT IN THESE AREAS UNLESS ABOVE AVERAGE RAINFALL OCCURS DURING THE REMAINDER OF THE SEASON. CARRY-OVER STORAGE IS GOOD THROUGHOUT THE STATE. HOWEVER, JOHN MARTIN RESERVOIR IS EMPTY.



NEW MEXICO

STREAMFLOW FORECASTS IN NEW MEXICO HAVE REDUCED SLIGHTLY. ONLY A FEW SNOW COURSES ARE READ MAY 1st AS MOST ARE VOID OF SNOW. CARRY-OVER RESERVOIR STORAGE IS GOOD WITH ELEPHANT BUTTE CONTAINING 719,000 ACRE FEET COMPARED TO 385,000 LAST YEAR. FIVE OTHER RESERVOIRS CONTAIN 143% OF THE 1958-72 AVERAGE. THIS WILL SUPPLEMENT STREAMFLOW FOR IRRIGATION NEEDS. SOIL MOISTURE CONDITIONS ARE REPORTED AS POOR.

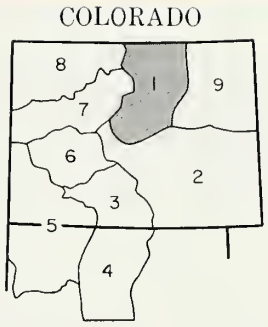
WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
SOUTH PLATTE RIVER WATERSHED IN COLORADO

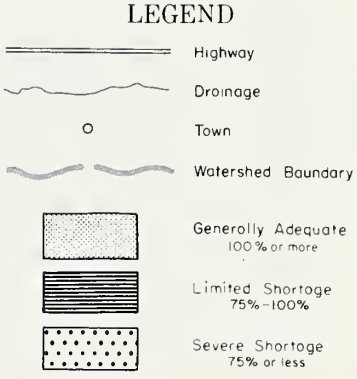
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CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO







YOUR WATER SUPPLY

HEAVY SNOWFALL OCCURRED IN THE HEADWATERS OF MOST SOUTH PLATTE TRIBUTARIES DURING THE MONTH. THEREFORE STREAMFLOW FORECASTS WERE INCREASED FROM LAST MONTH ON MOST STREAMS. THE LARGEST INCREASE IS ON CLEAR CREEK AND THE CACHE LA POUDRE. FORECASTS NOW RANGE FROM 100% ON ST. VRAIN TO 122% ON CLEAR CREEK. RESERVOIR STORAGE IS NEAR LAST YEAR AND 111% OF THE 1958-72 AVERAGE. THE BIG THOMPSON STORAGE IS 140% OF AVERAGE AND DENVER WATER BOARD IS 109%. SOIL MOISTURE CONDITIONS ARE REPORTED AS GOOD.

This report prepared by

JACK N. WASHICHEK and RONALD E. MORELAND
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE
DENVER, COLORADO

Issued by

M. O. BURDICK---STATE CONSERVATIONIST O.W. GILLASPIE---AREA CONSERVATIONIST DONALD A. MOSS --- AREA CONSERVATIONIST
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
DENVER, COLORADO STERLING, COLORADO LA JUNTA, COLORADO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORE-CAST	% of Average	Average +
Big Thompson at Drake(1)	112	105	107
Boulder at Orodell	55	112	49
Cache La Poudre at Canyon Mouth (2)	265	107	247
Clear Creek at Golden(3)	155	122	127
St. Vrain at Lyons (4)	75	100	75

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Bear Creek	Exc.	Avg.
Coal Creek	Exc.	Avg.
North Fork of South Platte	Exc.	Avg.
North Fork of Cache La Poudre	Exc.	Avg.
Ralston Creek	Exc.	Avg.
Rock Creek	Exc.	Avg.

(1) Observed flow plus by–pass to power plants. (2) Observed flow minus trans–basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel. (4) Observed flow plus change in storage in Price Reservoir.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Big Thompson	4	102	107
Boulder	3	98	125
Cache La Poudre	8	84	127
Clear Creek	6	125	130
Saint Vrain	3	64	90
South Platte	3	86	93

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Big Thompson	3	113	90
Boulder	1	63	72
Cache La Poudre	2	120	90
Clear Creek	2	97	93
Saint Vrain	3	113	90
South Platte	2	96	84

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Antero	33.0	15.9	15.9	13.7
Barr Lake	32.2	25.5	28.0	26.0
Black Hollow	8.0	4.7	4.5	4.2
Boyd Lake	44.0	44.1	37.5	37.9
Cache La Poudre	9.5	8.3	8.8	8.8
Carter Lake	108.9	107.0	102.8	98.5
Chambers Lake	8.8	4.5	5.0	3.6
Cheesman	79.0	67.5	56.5	60.2
Cobb Lake	34.3	19.1	20.1	15.0
Eleven Mile	97.8	94.5	91.7	89.1
Fossil Creek	11.6	9.5	10.3	8.3
Gross	43.1	25.8	19.7	22.6

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Halligan	6.4	6.4	6.4	6.0
Horsetooth	143.5	125.6	121.2	121.2
Lake Loveland	14.3	12.7	10.9	10.2
Lone Tree	9.2	7.9	8.9	7.6
Mariano	5.4	5.8	5.7	5.4
Marshall	10.3	---	5.6	5.8
Marston	18.0	16.6	16.5	16.1
Milton	24.4	17.4	18.1	15.0
Standley	42.0	---	28.1	20.0
Terry Lake	8.2	5.8	6.3	5.8
Union	12.7	12.7	10.9	10.0
Windsor	18.6	12.8	14.8	12.5

+ 1958-1972 period.

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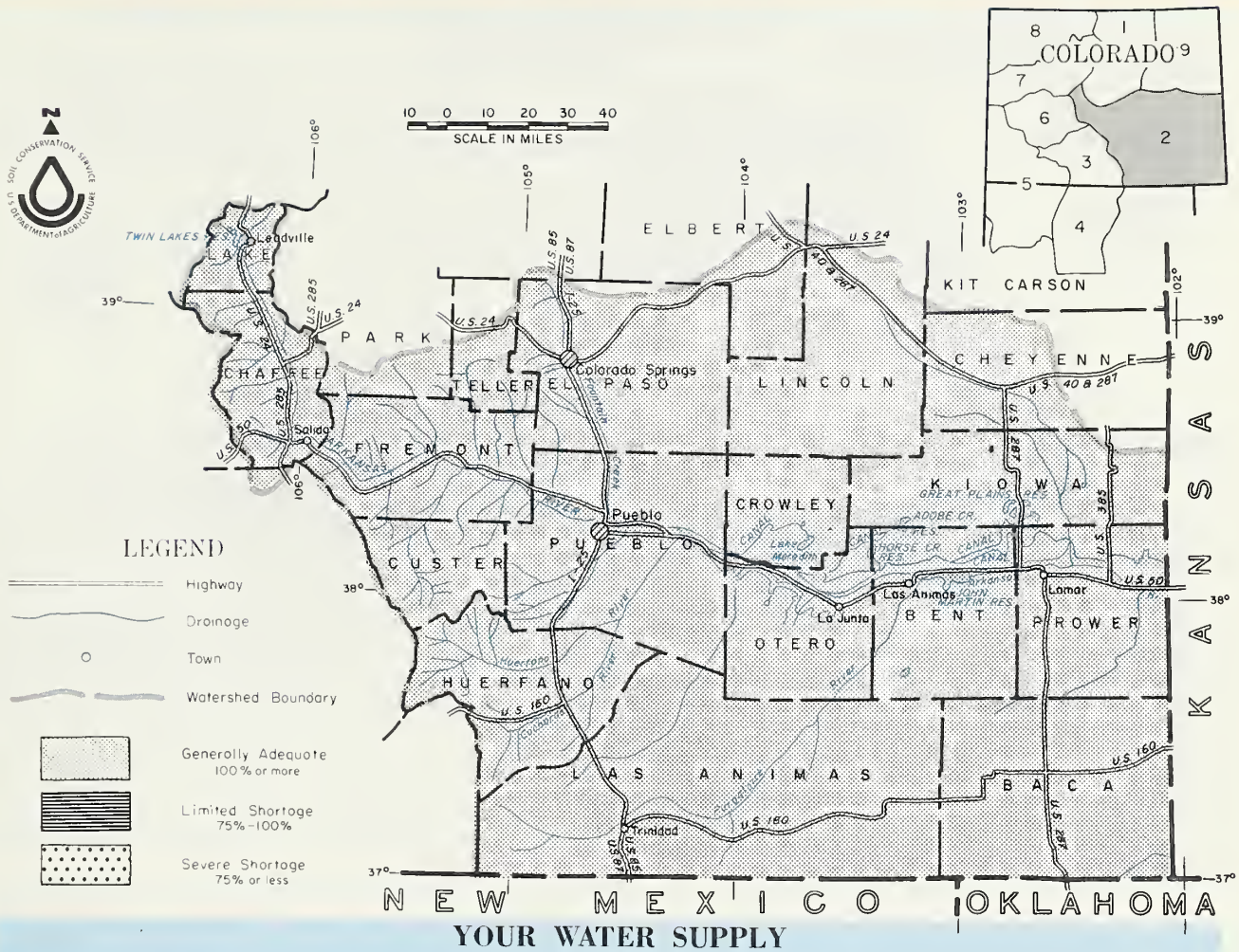
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WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
ARKANSAS RIVER WATERSHED IN COLORADO
as of
MAY 1, 1974

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

STREAMFLOW FORECASTS FOR THE SEASON ARE SLIGHTLY BELOW AVERAGE FOR THE ARKANSAS AND ITS TRIBUTARIES. FORECASTS RANGE FROM 96% OF AVERAGE ON ARKANSAS RIVER AT SALIDA TO 83% ON THE PURGATOIRE. RESERVOIR STORAGE IS 110% OF AVERAGE AND 134% OF LAST YEAR. TURQUOISE CONTAINS 51,500 ACRE FEET, ABOUT SAME AS LAST YEAR WHILE JOHN MARTIN IS EMPTY. SOIL MOISTURE IN IRRIGATED AREAS IS REPORTED AS FAIR TO GOOD. AVERAGE PRECIPITATION OR ABOVE IS NEEDED THE REMAINDER OF THE SEASON TO ASSURE AN AVERAGE STREAMFLOW.

This report prepared by
JACK N. WASHICHEK and RONALD E. MORELAND
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE
DENVER, COLORADO

Issued by
M. O. BURDICK - STATE CONSERVATIONIST
R. L. PORTER - AREA CONSERVATIONIST, ALAMOSA, COLORADO
DONALD A. MOSS - AREA CONSERVATIONIST, LA JUNTA, COLORADO
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
DENVER, COLORADO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORE-CAST	% of Average	Average +
Arkansas nr Pueblo (1)	275	95	290
Arkansas nr Salida (1)	300	96	313
Cucharas nr La Veta	9	90	10
Purgatoire at Trinidad	30	83	38

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Apishapa	Avg.	Fair
Fountain Creek	Avg.	Fair
Grape	Avg.	Fair
Hardscrable	Avg.	Fair
Huerfano	Avg.	Fair
Monument Creek	Avg.	Fair

(1) Observed flow plus change in Clear Creek, Twin Lakes and Turquaise Reservairs minus diversions through Busk Ivanhae, Baustead, Divide, Twin Lakes and Homestake Tunnels and Ewing, Frant Pass, Wurtz and Columbine ditches.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Arkansas	9	84	118
Cucharas	2	--	--
Purgatoire	1	0	16

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Arkansas	3	98	104
Cucharas and Purgatoire	2	106	97

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Adobe	61.6	19.0	0.0	15.5
Clear Creek	11.4	3.5	7.8	7.9
Cucharas	40.0	6.4	0.0	3.0
Great Plains	150.0	50.4	48.2	57.2
Horse Creek	26.9	0.0	0.0	6.6

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
John Martin	353.9	0.0	40.9	72.8
Meredith	41.9	25.6	22.6	13.0
Model	15.0	---	---	2.9
Turquoise	120.5	51.5	50.7	---
Twin Lakes	57.9	36.0	26.9	21.7

+ 1958-1972 period.

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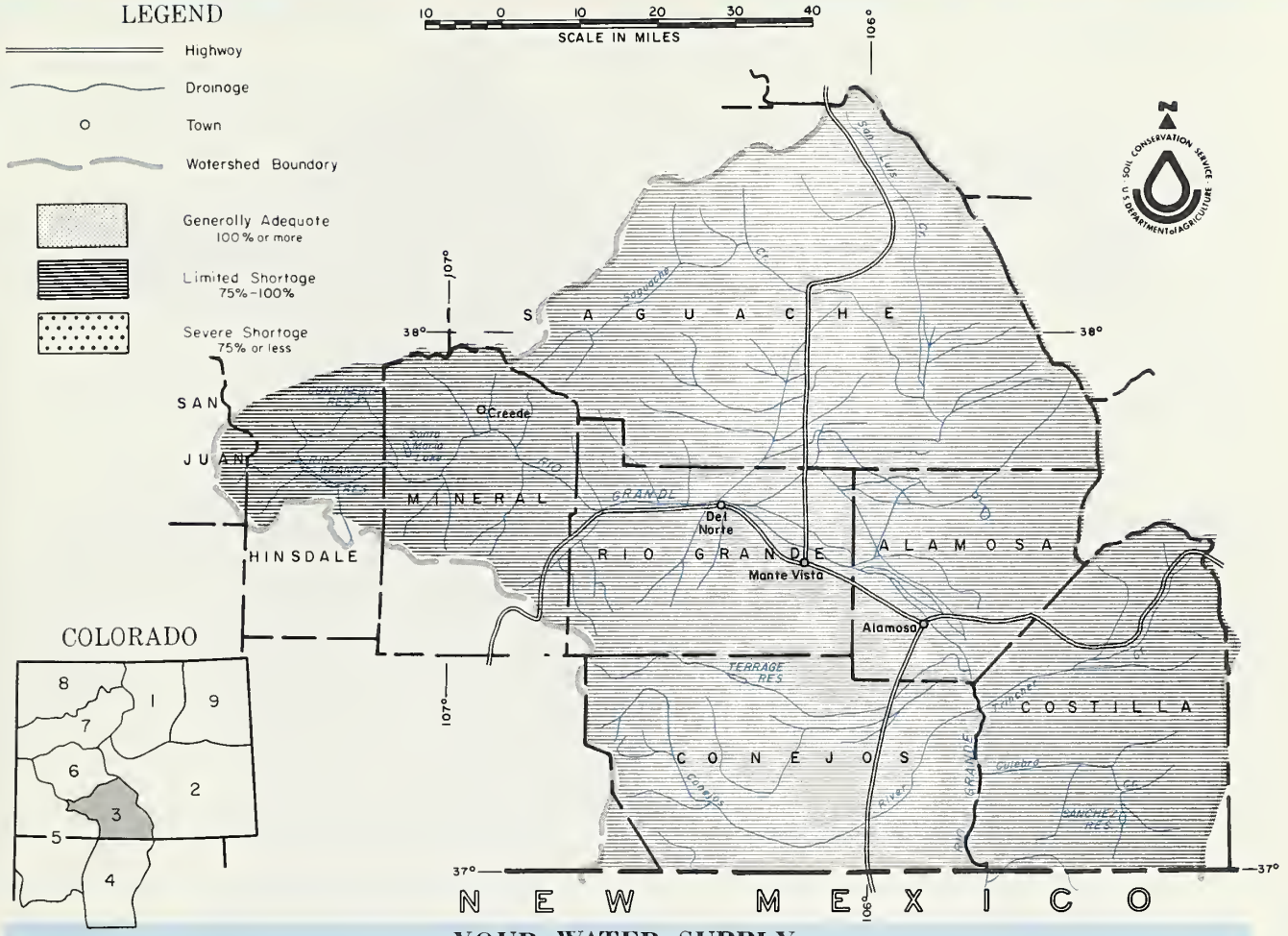
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WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
UPPER RIO GRANDE WATERSHED IN COLORADO

as of

MAY 1, 1974

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

STREAMFLOW FORECASTS REMAIN ABOUT THE SAME AS LAST MONTH AND RANGE FROM 74% TO 84% OF THE 1958-72 AVERAGE. ABOVE AVERAGE PRECIPITATION WILL BE NEEDED TO ASSURE AVERAGE STREAMFLOW. RESERVOIR STORAGE IS ABOUT 163% OF AVERAGE AND WILL BE AN EXCELLENT SUPPLEMENT FOR IRRIGATION DEMANDS. SOIL MOISTURE CONDITIONS IN THE IRRIGATED AREAS ARE REPORTED AS POOR TO FAIR.

This report prepared by

JACK N. WASHICHEK and RONALD E. MORELAND
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE
DENVER, COLORADO

Issued by

M. O. BUROICK --STATE CONSERVATIONIST
R.L. PORTER --AREA CONSERVATIONIST
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
DENVER, COLORADO
ALAMOSA, COLORADO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORE-CAST	% of Average	Average +
Alamosa abv Terrace	49	79	62
Conejos nr Mogote (1)	153	83	184
Culebra at San Luis (2)	13	76	17
Rio Grande at 30 Mile Bridge (3)	95	78	121
Rio Gr. nr Del Norte(3)	350	75	468
South Fork at South Fork	55	74	115

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Saguache Creek	Fair	Fair
Sangre de Cristo Cr.	Fair	Fair
Trinchera	Fair	Fair

(1) Observed flow plus change in storage in Platoro Reservoir. (2) Observed flow plus change in storage in Sanchez Reservoir. (3) Observed flow plus change in storage in Santa Maria, Rio Grande and Continental Reservoirs.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Alamosa	2	50	97
Conejos	3	38	82
Culebra	2	16	83
Rio Grande	10	40	75

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Alamosa	1	131	96
Conejos	1	131	96
Culebra	1	107	91
Rio Grande	3	114	96

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Continental	26.7	3.6	6.1	6.6
Platoro	60.0	35.0	2.9	10.0
Rio Grande	45.8	28.5	21.0	20.3

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Sanchez	103.2	---	---	14.5
Santa Maria	45.0	7.9	5.8	7.5
Terrace	17.7	10.1	6.8	7.2

+ 1958-1972 period.

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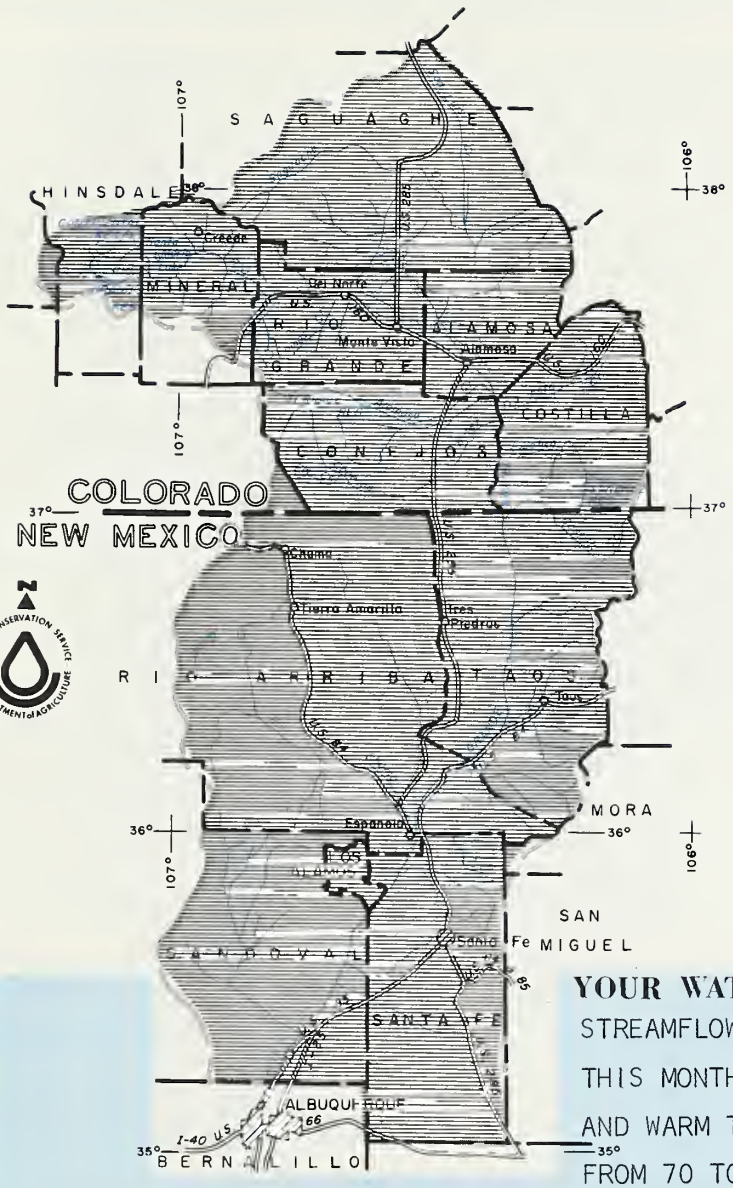
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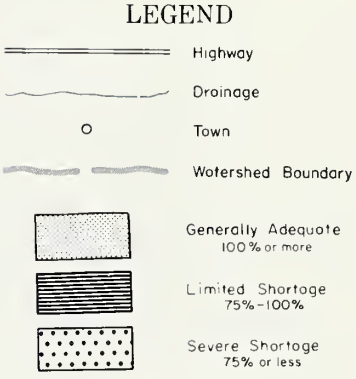
"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
RIO GRANDE WATERSHED IN NEW MEXICO
as of

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU · EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO







YOUR WATER SUPPLY

STREAMFLOW FORECASTS WERE LOWERED SLIGHTLY THIS MONTH BECAUSE OF LOW PRECIPITATION AND WARM TEMPERATURES. FORECASTS RANGE FROM 70 TO 90%. ABOVE AVERAGE PRECIPITATION IS NEEDED TO OBTAIN AVERAGE FLOWS. HOWEVER, RESERVOIR STORAGE IS EXCELLENT WITH SEVEN MAJOR RESERVOIRS CONTAINING 166% OF THE 1958-72 AVERAGE. OF THESE, ELEPHANT BUTTE CONTAINS 719,000 ACRE FEET COMPARED TO 385,000 ACRE FEET LAST YEAR.

This report prepared by
JACK N. WASHICHEK and RONALD E. MORELAND
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE
DENVER, COLORADO

Issued by
MARION E. STRONG---STATE CONSERVATIONIST
JAY L. RAMSAY ---AREA CONSERVATIONIST
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
ALBUQUERQUE, NEW MEXICO
SANTA FE, NEW MEXICO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Mar-Jul

FORECAST POINT	FORE-CAST	% of Average	Average †
Costilla at Costilla(1)	15	79	19
Jemez River nr Jemez	23	79	29
Pecos at Pecos	38	93	41
Red River at Mouth nr Questa	24	83	29
Rio Chama at El Vado	152	80	190
Rio Gr. at Otowi (2)	400	76	526
Rio Gr. at San Mar (2)	220	62	355
Rio Hondo nr Valdez	10	71	14
Santa Cruz at Cundiyo	10	77	13

The forecast of the Rio Grande at San Marcial is __ % of the Average used by the Elephant Butte Irrigation District. (1) Observed flow plus change in Costilla Reservoir. (2) Observed flow plus change in storage in El Vado and Abiquiu Reservoir.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Embudo Creek	Fair	Poor
Jemez River	Fair	Poor
Mora River	Avg.	Fair
Nambe Creek	Fair	Poor
Rio Ojo Caliante	Fair	Poor
Rio Pueblo de Taos	Fair	Poor
Santa Fe Creek	Fair	Fair

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Rio Grande	3	42	89

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average †

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Alamorgordo	111	73	100	62
Caballo	344	78	72	83
Conchas	273	224	189	175
Elephant Butte	2195	719	385	380

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
El Vado	195	131	74	28
Heron	400	160	62	--
McMillen-Avalon	32	7	20	12

† 1958-1972 period.

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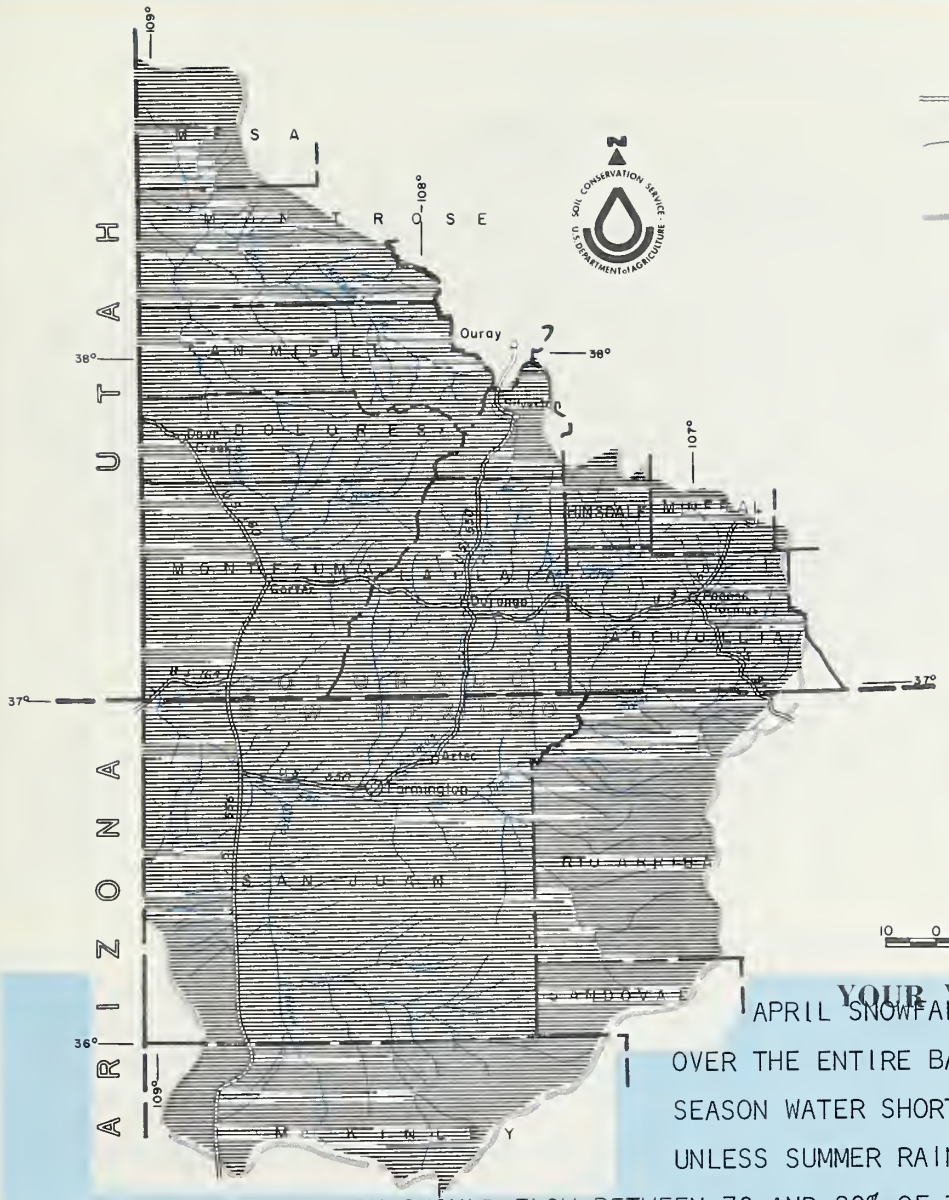
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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN WATERSHEDS IN COLORADO AND NEW MEXICO

as of
MAY 1, 1974

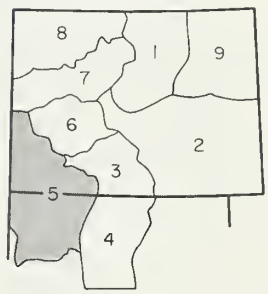
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COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



LEGEND

- Highway
- Drainage
- Town
- Watershed Boundary
- Generally Adequate 100% or more
- Limited Shortage 75%-100%
- Severe Shortage 75% or less

COLORADO



10 0 10 20 30 40
SCALE IN MILES

YOUR WATER SUPPLY

APRIL SNOWFALL WAS DEFICIENT OVER THE ENTIRE BASIN. SOME LATE SEASON WATER SHORTAGES COULD EXIST UNLESS SUMMER RAINFALL IS ABOVE NORMAL. STREAMS IN THIS BASIN SHOULD FLOW BETWEEN 70 AND 80% OF THE 15 YEAR AVERAGE. CARRY-OVER STORAGE IS SLIGHTLY ABOVE NORMAL. NAVAJO RESERVOIR IN NEW MEXICO CONTAINS 970,000 ACRE FEET -- A SLIGHT DROP FROM LAST YEAR AT THIS TIME. SOIL MOISTURE CONDITIONS ARE REPORTED AS GOOD.

This report prepared by
JACK N. WASHICHEK and RONALO E. MORELAND
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE
DENVER, COLORADO

Issued by
M. D. BUROICK --- STATE CONSERVATIONIST
DENVER, COLORADO
MARION E. STRONG --- STATE CONSERVATIONIST
ALBUQUERQUE, NEW MEXICO
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
R.L. PORTER --- AREA CONSERVATIONIST
ALAMOSA, COLORADO
JAY L. RAMSAY --- AREA CONSERVATIONIST
SANTA FE, NEW MEXICO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORE-CAST	% of Average	Average +
Animas at Durango	340	80	423
Dolores at Dolores	180	78	232
La Plata at Hesperus	17	71	24
Los Pinos at Bayfield(1)	155	78	198
Piedra Cr. at Arboles	150	81	185
San Juan at Carracas	290	82	354
San Miguel at Placerville	110	85	130
Inflow to Navajo Rs.(1) (Apr-Jul)	500	84	597

(1) Observed flow plus change in storage in Vallicito Reservoir.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period: Spring Season	Flow Period: Late Season
Florida	Fair	Fair
Mancos	Fair	Fair

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF: Last Year	Average +
Animas	6	48	87
Dolores	4	48	115
San Juan	5	52	83

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	Average +
Animas	3	74	66
Dolores	3	86	89
San Juan	3	74	66

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage: This Year	Last Year	Average +
Groundhog	22	16	7	12
Lemon	40	19	16	25
Narraguinnep		16	16	--
Navajo	1696	970	1170	564
Vallecito	126	83	58	68
Jackson Gulch		7	--	7

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage: This Year	Last Year	Average +

+ 1958-1972 period.

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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
GUNNISON RIVER WATERSHED IN COLORADO

as of

MAY 1, 1974

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

STREAMFLOW FORECASTS FOR THIS SEASON ARE NEAR AVERAGE RANGING FROM 92% TO 108%. FORECASTS WERE INCREASED FROM LAST MONTH'S WITH THE GUNNISON RIVER NEAR GRAND JUNCTION SHOWING THE LARGEST INCREASE. RESERVOIR STORAGE IN TAYLOR PARK IS 157% OF LAST YEAR AND 106% OF AVERAGE. BLUE MESA AND MORROW POINT ARE 311,000 ACRE FEET AND 114,000 ACRE FEET RESPECTIVELY, ABOUT THE SAME AS LAST YEAR. SOIL MOISTURE CONDITIONS IN IRRIGATED AREAS ARE REPORTED AS GOOD.

This report prepared by
JACK N. WASHICHEK and RONALD E. MORELAND
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE
DENVER, COLORADO

Issued by
M. O. BURDICK--STATE CONSERVATIONIST QUANE L. JOHNSON --AREA CONSERVATIONIST
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
DENVER, COLORADO GLENWOOD SPRINGS, COLORADO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORE-CAST	% of Average	Average +
Gunnison inflow to Blue Mesa (1)	730	92	793
Gunnison nr Grand Junction (2)	1275	108	1184
N. Fork of Gunnison(3)	262	100	263
Surface Creek nr Cedaredge	15	94	16
Uncompahgre at Colona	130	97	134

(1) Observed flow plus change in storage in Taylor Reservoir. (2) Observed flow plus change in storage in Blue Mesa, Morrow Point and Taylor Reservoirs. (3) Observed flow plus change in storage in Paonia Reservoir.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Taylor	Exc.	Avg.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Gunnison	12	74	116
Surface Creek	3	70	103
Uncompahgre	3	65	105

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Gunnison	1	83	100
Surface Creek	1	74	85
Uncompahgre	2	79	93

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Blue Mesa	830	311	305	308
Morrow Point	121	114	115	115
Taylor	106	66	42	62

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +

+ 1958-1972 period.

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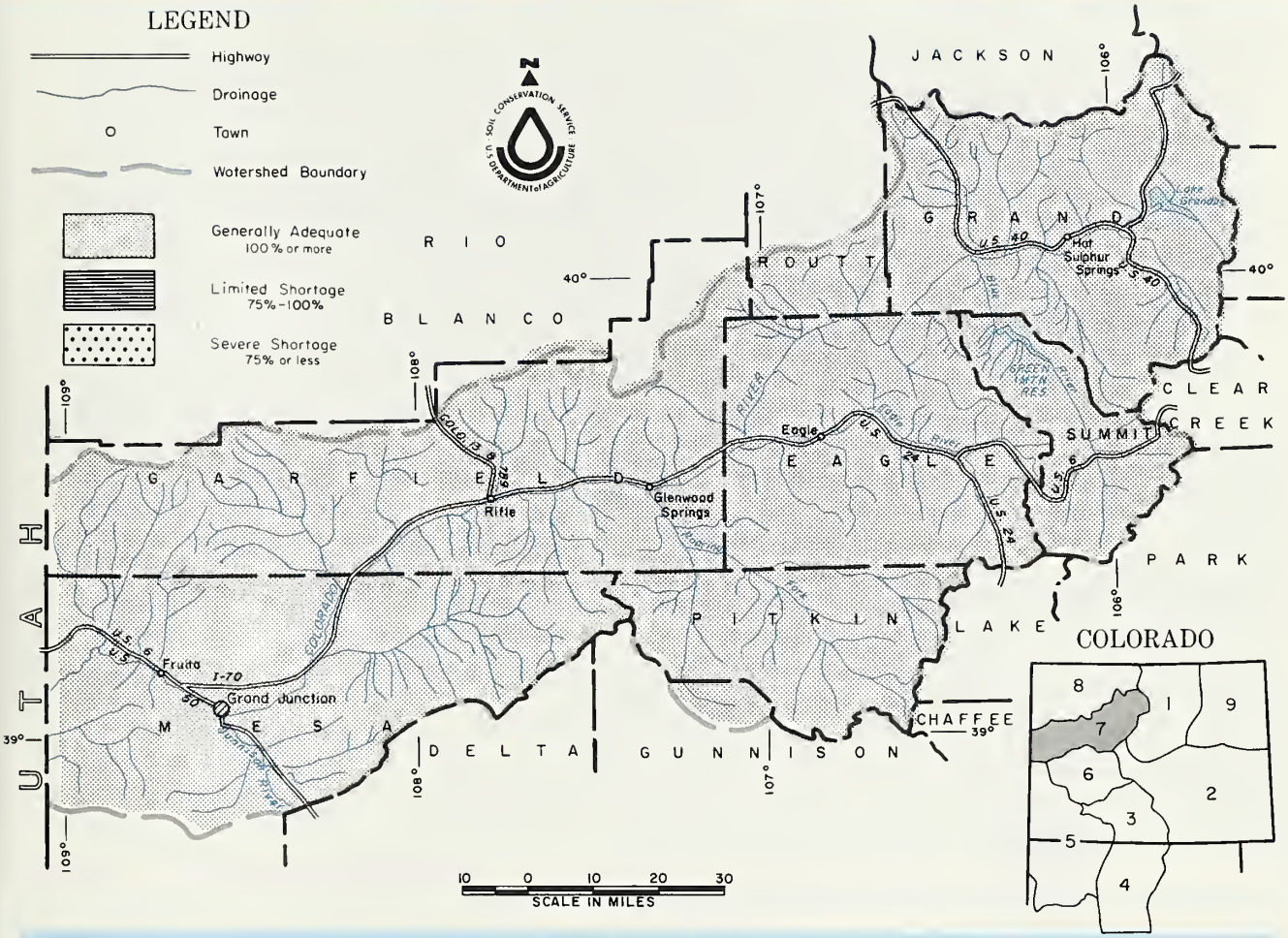


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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
COLORADO RIVER WATERSHED IN COLORADO
as of
MAY 1, 1974

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

STREAMFLOW FORECASTS HAVE BEEN INCREASED OVER LAST MONTH'S BECAUSE OF ABOVE AVERAGE SNOWFALL IN THE BASIN. WATER SUPPLIES SHOULD BE ADEQUATE WITH FORECASTS RANGING FROM 101 TO 128% OF 1958-72 AVERAGE. THE BLUE RIVER, WILLIAMS FORK AND FRASER RIVER BASINS ALL RECEIVED HEAVY SNOWFALLS DURING THE MONTH. RESERVOIR STORAGE IS NEAR LAST YEAR'S. SOIL MOISTURE CONDITIONS IN IRRIGATED AREAS ARE REPORTED AS GOOD.

This report prepared by
JACK N. WASHICHEK and RONALD E. MORELAND
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE
DENVER, COLORADO

Issued by
M. D. BURDICK
STATE CONSERVATIONIST
DUANE L. JOHNSON
AREA CONSERVATIONIST
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
DENVER, COLORADO
GLENWOOD SPRINGS, COLORADO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORE-CAST	% of Average	Average +
Blue inflow to Dillon	200	118	169
Blue inflow to Green Mountain (1)	355	120	297
Colo. R. inflow to Granby Res. (2)	245	107	228
Colo. R. nr Dotsero(3)	1475	103	1434
Roaring Fork at Glenwood Springs (4)	725	102	713
Wm. Fk. nr Parshall(5)	80	127	63
Willow Cr. inflow to Willow Cr. Reservoir	60	128	47
Colorado nr Cameo (6)	2400	101	2370

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Brush	Exc.	Avg.
Eagle River	Exc.	Avg.
Gypsum Creek	Exc.	Avg.

(1) Observed flow plus diversions through Roberts Tunnel and change in storage in Dillon Reservoir. (2) Observed flow corrected for change in storage in Lake Granby as furnished by U.S.B.R. and diversions by Adams Tunnel and Grand River Ditch. (3) Observed flow plus the changes as indicated in (1), (2) and (5) plus Moffat Ditch and change in Homestake, Williams Fork, Green Mt. and Willow Creek Reservoirs. (4) Observed flow plus diversions through Divide and Twin Lakes Tunnels plu change in storage in Ruedi Reservoir. (5) Observed flow plus diversions through August P. Gumlick Tunnel. (6) Observed flow plus the changes as indicated in (3) and (5).

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Blue River	8	128	133
Colorado	20	100	136
Plateau	3	72	102
Roaring Fork	7	79	112
Williams Fork	3	116	165
Willow	2	106	137

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Blue River	1	76	87
Colorado	5	91	89
Roaring Fork	1	101	101
Willow	1	102	102

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Dillon	254	239	219	229
Granby	466	368	307	209
Green Mountain	147	40	58	45
Homestake	43		18	11

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Ruedi	101	53	54	55
Vega	32	16	16	15
Williams Fork	97	46	56	29
Willow Creek	9	2	6	6

+ 1958-1972 period.

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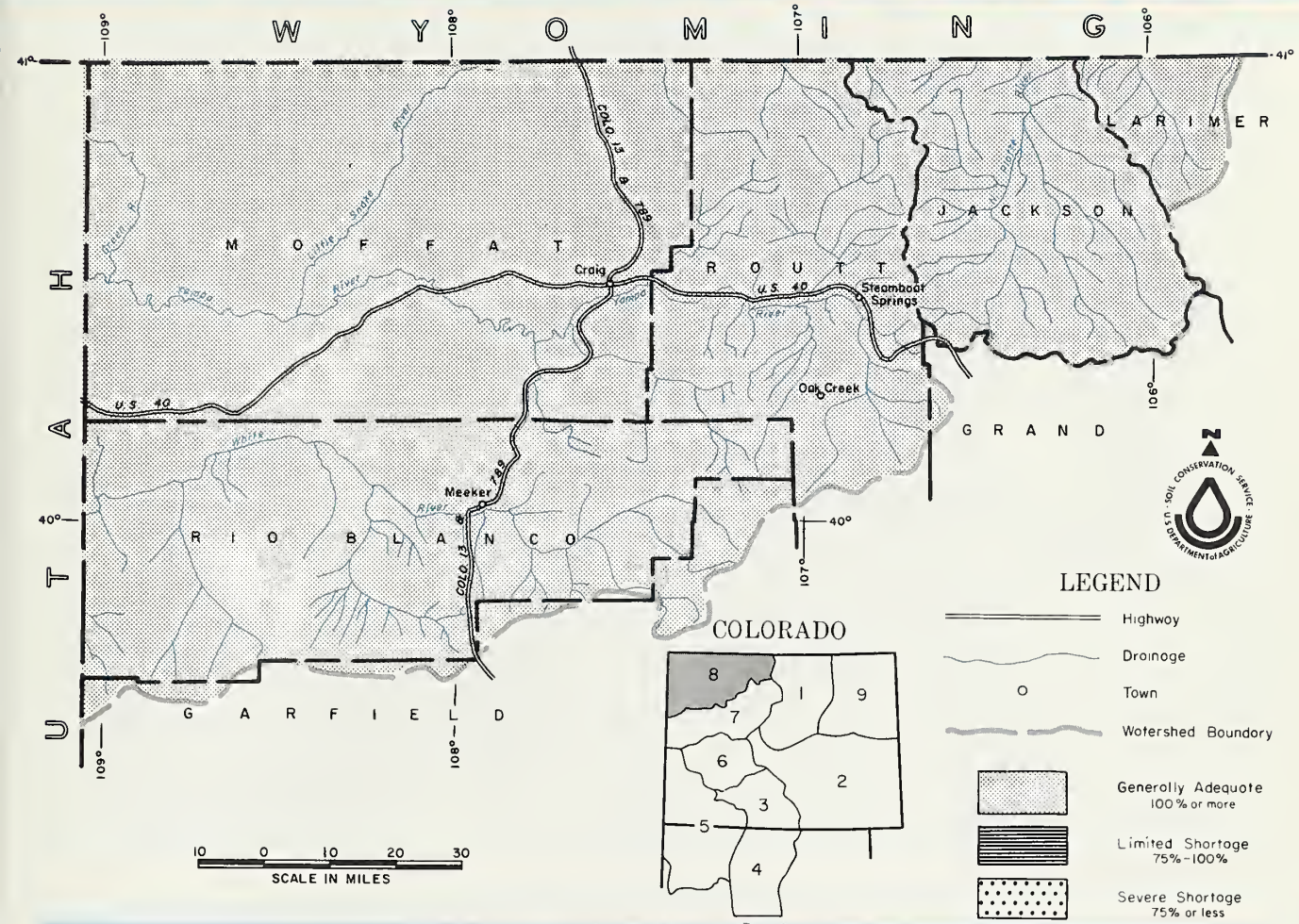
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WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
YAMPA, WHITE, AND NORTH PLATTE RIVER WATERSHEDS
IN COLORADO

as of
MAY 1, 1974

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

SNOWFALL DURING MAY WAS MUCH ABOVE NORMAL ADDING TO THE ALREADY ABOVE NORMAL PACK. LOW ELEVATION SNOW IS NEAR OR AT RECORD HIGHS. HIGH ELEVATION SNOWPACK IS FROM 125 TO 150% OF NORMAL. SUMMER FLOWS OF 150% OF NORMAL ARE EXPECTED. SOME HIGH WATER COULD RESULT FROM THE LOW ELEVATION SNOWPACK IF TEMPERATURES ARE UNSEASONABLY WARM.

This report prepared by
JACK N. WASHICHEK and RONALD E. MORELAND
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE
DENVER, COLORADO

Issued by
M. D. BUROICK --- STATE CONSERVATIONIST
OUANE L. JOHNSON --- AREA CONSERVATIONIST
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
DENVER, COLORADO
GLENWOOD SPRINGS, COLORADO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORE-CAST	% of Average	Average †
Elk at Clark	250	126	198
Laramie nr Woods			127
Little Snake at Lily	500	154	324
N. Platte at Northgate			240
White nr Meeker	350	119	295
Yampa nr Maybell	1250	132	905
Yampa at Steamboat Springs	390	142	274

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Canadian River	Exc.	Avg.
Hunt Creek	Exc.	Avg.
Illinois River	Exc.	Avg.
Michigan River	Exc.	Avg.
Oak Creek	Exc.	Avg.
Trout Creek	Exc.	Avg.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Elk	2	119	147
Laramie	3	107	137
North Platte	5	101	124
White	2	121	168
Yampa	6	121	154

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average †
Laramie	2	120	90
North Platte	2	102	102
Yampa	1	99	126

† 1958-1972 period.

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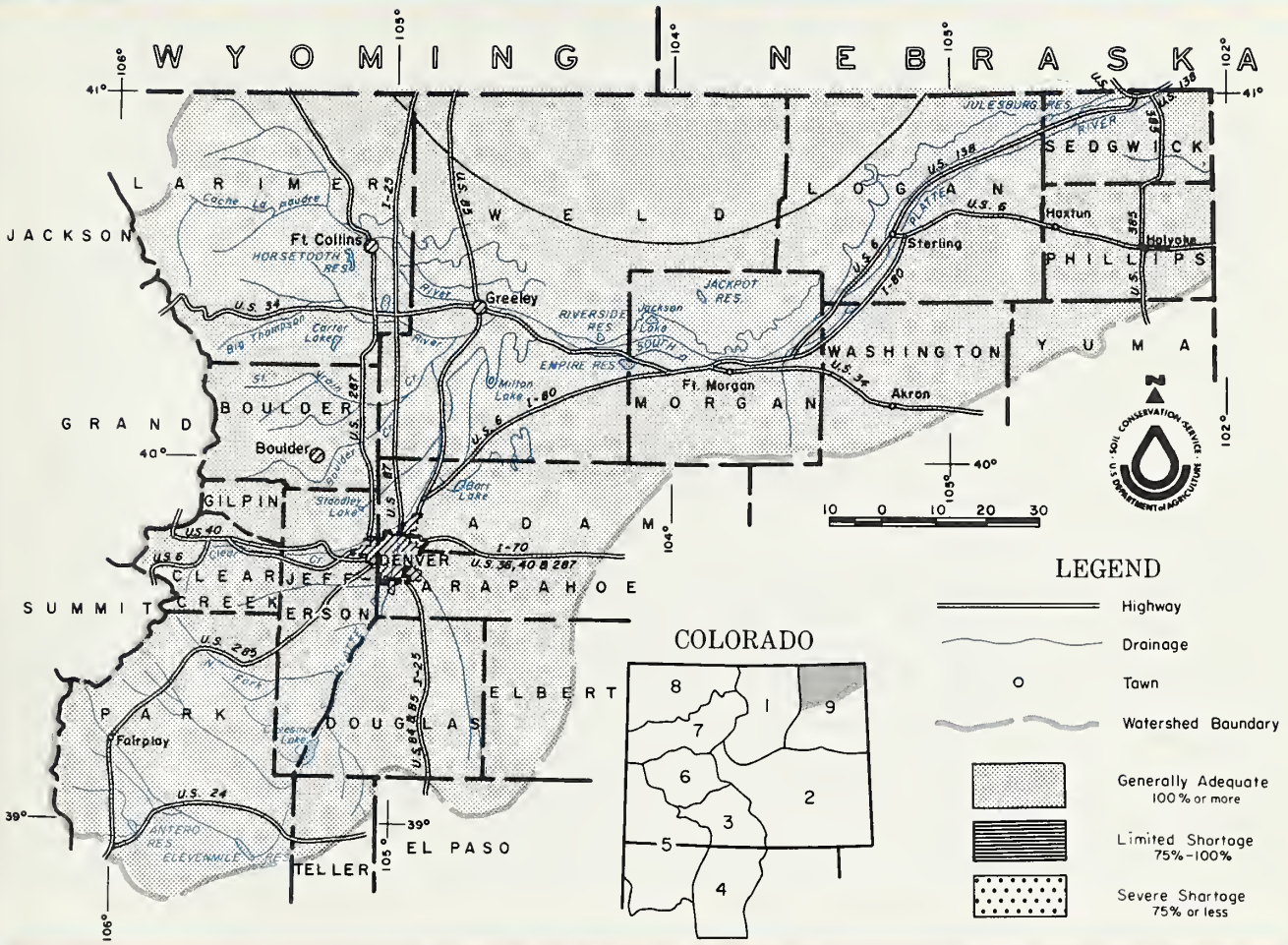
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WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
LOWER SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of
MAY 1, 1974

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

STREAMFLOW FORECASTS HAVE INCREASED FROM LAST MONTH BECAUSE OF THE HEAVY SNOWFALL IN THE HEADWATERS OF THE SOUTH PLATTE TRIBUTARIES. FORECASTS NOW RANGE FROM 100% ON ST. VRAIN TO 122% ON CLEAR CREEK. THE CACHE LA POUDRE AND CLEAR CREEK SHOW INCREASES OF 20,000 TO 28,000 ACRE FEET RESPECTIVELY FROM LAST MONTH'S FORECAST. RESERVOIR STORAGE IS ABOUT THE SAME AS LAST YEAR AND 186% OF THE 1958-72 AVERAGE. CARRY-OVER STORAGE OF THE DENVER SYSTEM IS 109% AND THE BIG THOMPSON PROJECT IS 140% OF AVERAGE. SOIL MOISTURE CONDITIONS IN THE IRRIGATED AREAS ARE REPORTED AS GOOD.

This report prepared by
JACK N. WASHICHEK and RONALD E. MORELAND
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE
DENVER, COLORADO

Issued by
M. O. BUROICK---STATE CONSERVATIONIST
O. W. GILLASPIE---AREA CONSERVATIONIST
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
DENVER, COLORADO
STERLING, COLORADO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORE-CAST	% of Average	Average †
Big Thompson at Drake (1)	112	105	107
Boulder at Orodell	55	112	49
Cache La Poudre at Canyon Mouth (2)	265	107	247
Clear Creek at Golden (3)	155	122	127
St. Vrain at Lyons (4)	75	100	75

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period: Spring Season	Flow Period: Late Season
South Platte from Greeley to Fort Morgan	Exc.	Avg.
South Platte from Fort Morgan to Sterling	Exc.	Avg.
South Platte below Sterling	Exc.	Avg.

(1) Observed flow plus by–pass to power plants. (2) Observed flow minus trans–basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel. (4) Observed flow plus change in storage in Price Reservoir.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF: Last Year	Average †
Big Thompson	4	102	107
Boulder	3	98	125
Cache La Poudre	8	84	127
Clear Creek	6	125	130
Saint Vrain	3	64	90
South Platte	3	86	93

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	Average †
Big Thompson	3	113	90
Boulder	1	63	72
Cache La Poudre	2	120	90
Clear Creek	2	97	93
Saint Vrain	3	113	90
South Platte	2	96	84

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage: This Year	Last Year	Average †
Carter	108.9	107.0	107.0	98.5
Cheesman	79.0	67.5	56.5	60.2
Eleven Mile	97.8	94.5	91.7	89.1
Empire	37.7	34.7	34.0	33.1
Horsetooth	143.5	125.6	121.2	121.2

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage: This Year	Last Year	Average †
Jackson	35.4	34.4	34.7	33.3
Julesburg	28.2	22.8	23.1	22.5
Prewitt	32.8	28.1	28.6	23.3
Point of Rocks	70.0	71.5	70.6	66.2
Riverside	57.5	58.6	59.9	57.7

† 1958-1972 period.

Return if not delivered
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APPENDIX I

SNOW COURSE MEASUREMENTS as of May 1, 1974

SNOW COURSE	CURRENT INFORMATION: DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	PAST RECORD: WATER CONTENT (INCHES) LAST YEAR	AVG. 58-72
NORTH PLATTE BASIN					
Laramie River					
Deadman Hill	4/26	62	23.2	20.9	18.0
McIntyre	4/28	38	13.5	13.9	10.1
Roach	4/27	70	27.2	25.0	18.5
North Platte River					
Cameron Pass	5/1	86	36.3	36.9	31.2
Columbine Lodge	4/30	60	27.4	21.0	22.0
Northgate	5/1	14	5.3	9.0	3.7
Park View	4/29	28	9.5	11.2	6.5
Willow Cr. Pass (B)	4/27	36	14.1	13.7	11.0
SOUTH PLATTE BASIN					
Boulder Creek					
Baltimore	4/29	31	8.1	10.0	3.9
Boulder Falls	4/27	42	15.5	15.9	13.1
University Camp	4/27	58	22.4	20.9	19.9
Big Thompson River					
Deer Ridge	4/30	5	1.9	6.5	2.7
Hidden Valley	4/30	31	9.4	---	11.6
Lake Irene (B)	4/28	66	25.8	23.1	22.9
Long's Peak	4/29	42	13.4	13.5	12.5
Two Mile	4/30	56	18.8	15.7	17.9
Cache La Poudre					
Bennett Creek	4/25	26	9.1	12.5	---
Big South	4/30	0	0.0	3.2	0.6
Cameron Pass	5/1	86	36.3	36.9	31.2
Chambers Lake	4/30	16	6.8	12.2	6.0
Deadman Hill	4/26	62	23.2	20.9	18.0
Hourglass Lake	4/25	34	11.2	11.3	6.0
Joe Wright	5/1	80	33.8	31.8	---
Lost Lake	4/30	35	12.5	12.2	9.9
Pine Creek	4/26	1	0.4	6.3	0.3
Red Feather	4/26	19	7.3	13.9	5.1
Clear Creek					
Baltimore	4/29	31	8.1	6.5	3.9
Berthoud Falls	4/29	53	16.8	16.9	12.4
Empire	4/29	40	11.9	9.5	6.9
Grizzly Peak (B)	4/25	69	26.0	16.5	20.1
Loveland Lift	4/26	68	23.3	20.8	24.0
Loveland Pass	4/26	59	21.9	15.7	15.0
Saint Vrain River					
Copeland Lake	4/30	4	1.4	6.1	2.4
Ward	4/30	20	4.8	10.3	5.6
Wild Basin	4/30	35	12.1	12.1	12.3
South Platte River					
Como	4/29	14	3.2	9.0	---
Geneva Park	4/29	7	1.1	3.9	1.9
Horseshoe Mountain	4/26	32	9.9	10.5	---
Hoosier Pass	4/29	40	13.0	11.2	12.9
Jefferson Creek	4/30	27	7.3	9.7	8.1
Mosquito	4/26	16	5.9	10.9	---
Trout Creek Pass	4/26	0	0.0	7.1	---
ARKANSAS BASIN					
Arkansas River					
Bigelow Divide	4/25	20	6.8	13.1	3.6
Cooper Hill (B)	5/3	47	15.5	11.0	12.1
East Fork	4/30	29	10.5	8.7	7.5
Four Mile Park	4/28	1	0.2	1.9	1.4
Fremont Pass	4/30	57	21.2	17.4	18.1
Garfield	4/29	25	10.9	17.8	8.6
Hermit Lake	4/25	9	3.9	10.4	---
Monarch Pass	4/29	46	18.9	20.6	16.3
Tennessee Pass	4/28	24	8.0	7.1	8.5
Twin Lake Tunnel	4/29	33	12.1	12.9	9.4
Westcliffe	4/25	0	0.0	6.2	1.6
Cucharas River					
Cucharas Pass	4/29	0	0.0	17.4	3.3
La Veta Pass (B)	4/29	0	0.0	17.5	2.1
Purgatoire River					
Bourbon	4/29	1	0.4	9.2	2.5
RIO GRANDE BASIN-COLO					
Alamosa River					
Silver Lakes	4/29	0	0.0	9.0	0.7
Summitville	4/29	51	17.8	29.5	19.0
Conejos River					
Cumbres	4/28	23	12.4	29.8	13.7
LaManga	4/28	33	13.3	30.0	---
Platoro	4/29	18	7.6	19.8	10.5
River Springs	4/30	0	0.0	3.7	0.3
Culebra River					
Brown Cabin				8.2	---
Cottonwood (B)				---	---
Culebra	4/23	12	5.0	14.4	3.9
La Veta Pass (B)	4/29	0	0.0	17.5	2.1
Trinchera (B)				15.3	---
Rio Grande					
Cochetopa Pass	4/26	15	4.6	8.9	3.3
Grayback	4/29	34	12.9	21.2	---
Hiway	4/28	53	21.1	35.5	25.8
Lake Humphrey	4/25	2	0.5	8.4	0.9
Love Lake	4/30	0	0.0	13.3	---
Pass Creek	4/29	1	0.1	13.2	3.5
Pool Table	4/30	1	0.2	7.9	2.4
Porcupine	4/29	8	2.6	10.0	7.4
Santa Maria	4/29	0	0.0	4.4	0.8
Upper Rio Grande	4/29	2	0.8	12.7	2.2
Wolf Creek Pass	4/29	35	16.9	36.9	21.5
Wolf Cr. Summit(B)	4/29	66	26.9	44.9	30.4
SAN JUAN-DOLORES					
Animas River					
Cascade	4/30	3	1.2	17.5	4.2
Lemon	4/30	0	0.0	12.1	---
Mineral Creek	4/30	26	10.2	21.5	11.6
Molas Lake	4/30	17	6.9	14.9	7.8
Purgatory	4/30	33	11.7	33.1	---
Red Mt. Pass (B)	4/30	74	30.6	39.6	32.5
Silverton Sub-Sta.	4/30	0	0.0	10.5	0.3
Spud Mountain	4/30	45	18.7	35.8	21.7
Dolores River					
Lizard Head	4/29	43	18.9	22.8	14.9
Lone Cone	4/29	22	10.1	18.4	---
Rico	4/29	0	0.0	9.4	0.1
Telluride	4/28	0	0.0	9.9	1.4
Trout Lake	4/28	24	10.5	19.2	9.1
San Juan River					
Chama Divide (B)	4/30	0	0.0	0.0	0.0
Chamita (B)	4/30	0	0.0	0.0	0.2
Upper San Juan	4/29	44	20.1	42.2	25.0
Wolf Creek Pass(B)	4/29	35	16.9	36.9	21.5
Wolf Cr. Summit	4/29	66	26.9	44.9	30.4

NOTE: NS - No survey
(B) - On adjacent drainage

APPENDIX I

SNOW COURSE MEASUREMENTS as of May 1, 1974

SNOW COURSE	CURRENT INFORMATION: DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	PAST RECORD: WATER CONTENT (INCHES) LAST YEAR	AVG. 58-72
GUNNISON BASIN					
Gunnison River					
Alexander Lake	4/29	55	23.5	31.2	21.9
Blue Mesa	4/29	9	3.3	6.6	1.7
Butte	4/29	39	15.2	14.2	---
Cochetopa Pass (B)	4/26	15	4.6	8.9	3.3
Crested Butte	4/29	22	11.2	12.8	7.0
Keystone	4/29	50	21.7	21.9	17.2
Lake City	4/25	17	5.7	8.0	4.2
Mesa Lakes (B)	4/29	44	17.8	28.9	15.8
McClure Pass	4/30	22	10.3	20.1	9.1
Park Cone	4/26	22	7.2	8.3	7.3
Park Reservoir	4/29	56	22.4	31.2	24.0
Porphyry Creek	4/29	49	20.0	22.5	16.5
Tomichi	4/29	31	13.2	16.5	10.3
Surface Creek					
Alexander Lake	4/29	55	23.5	31.2	21.9
Mesa Lakes (B)	4/29	44	17.8	28.9	15.8
Park Reservoir	4/29	56	22.4	31.2	24.0
Uncompahgre River					
Ironton Park	4/30	28	12.5	17.3	7.0
Red Mountain Pass	4/30	74	30.6	39.6	32.5
Telluride (B)	4/28	0	0.0	9.9	1.4
COLORADO BASIN (Main)					
Blue River					
Blue River	4/29	26	7.9	9.0	5.9
Fremont Pass	4/30	57	21.2	17.4	18.1
Frisco	4/25	21	7.1	8.0	4.7
Grizzly Peak	4/25	69	26.0	16.5	20.1
Hoosier Pass (B)	4/29	40	13.0	11.2	12.9
Shrine Pass	4/25	67	25.2	19.1	20.0
Snake River	4/25	31	10.5	5.3	3.3
Summit Ranch	4/30	23	8.3	6.9	4.9
Colorado River					
Arrow	4/30	48	18.4	15.0	11.1
Berthoud Pass	4/26	62	24.0	18.0	16.0
Berthoud Summit	4/29	81	27.5	21.7	21.1
Cooper Hill	5/3	47	15.5	11.0	12.1
Fiddler Gulch	4/30	45	15.9	13.6	14.5
Glenmar Ranch	4/29	22	8.6	10.0	4.4
Gore Pass	4/30	22	9.0	10.2	7.8
Grand Lake	4/28	22	7.9	8.3	4.0
Lake Irene	4/28	66	25.8	23.1	22.9
Lapland	4/25	39	13.9	10.4	7.3
Lulu	4/27	71	27.3	22.3	20.3
Lynx Pass	4/30	30	11.9	13.9	8.4
McKenzie Gulch	4/26	6	1.5	7.6	1.0
Middle Fork	4/29	28	10.3	10.4	6.2
Milner	4/28	40	14.3	11.9	13.1
North Inlet	4/30	13	6.1	8.9	6.3
Pando	4/30	27	10.2	11.2	8.0
Phantom Valley	4/28	23	8.1	9.8	7.0
Ranch Creek	4/30	45	15.9	12.3	9.4
Tennessee Pass (B)	4/28	24	8.0	7.1	8.5
Vail Pass	4/25	57	22.7	16.8	15.6
Vasquez	4/25	49	16.7	13.5	12.8
Roaring Fork River					
Aspen	4/28	60	24.7	21.0	17.7
Independence Pass	4/29	45	16.8	17.9	16.8
Ivanhoe	4/28	59	25.0	23.3	17.7
Kiln	4/29	42	17.0	12.9	---
Lift	4/28	45	17.0	22.2	19.0
McClure Pass	4/30	22	10.3	20.1	9.1
Nast	4/29	5	1.7	7.1	2.0
North Lost Trail	4/30	13	6.1	17.8	8.3
Williams Fork River					
Glenmar Ranch	4/29	22	8.6	10.0	4.4
Jones Pass	4/26	62	24.6	17.2	15.8
Middle Fork	4/29	28	10.3	10.4	6.2
Willow Creek					
Granby	4/29	16	6.5	5.7	4.0
Willow Creek Pass	4/29	36	14.1	13.7	11.0
Plateau Creek					
Mesa Lakes	4/29	44	17.8	28.9	15.8
Park Reservoir	4/29	56	22.4	31.2	24.0
Trickle Divide	4/29	66	27.6	34.3	26.9
YAMPA BASIN					
Elk River					
Elk River	4/26	51	21.9	17.4	15.4
Hahn's Peak	4/26	36	13.2	12.0	8.5
White River					
Burro Mountain	4/26	53	21.8	20.7	15.0
Rio Blanco	4/25	46	19.8	13.6	9.8
Yampa River					
Bear River	4/29	30	9.8	10.0	7.5
Buffalo Pass	4/25	141	61.6	46.3	---
Columbine (B)	4/30	60	27.4	21.0	22.0
Crosho	4/29	40	15.4	13.6	---
Dry Lake	4/25	67	28.7	21.9	16.9
Lynx Pass (B)	4/30	30	11.9	13.9	8.4
Rabbit Ears	4/30	97	41.6	30.9	27.1
Yampa View	4/30	46	20.9	18.4	9.3
RIO GRANDE BASIN - NM					
Rio Grande					
Chama Divide	4/30	0	0.0	0.0	0.0
Chamita	4/30	0	0.0	0.0	0.2
Cumbres Pass	4/28	23	12.4	---	13.7
Hopewell	4/27	25	10.9	21.7	---
Rio En Medio	4/29	0	0.0	17.5	---

NOTE: NS - No survey
(B) - On adjacent drainage

APPENDIX II

SOIL MOISTURE MEASUREMENTS as of May 1, 1974

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVG. ALL DATA
NORTH PLATTE BASIN					
North Platte River					
Muddy Pass	4/30/74	11.1	9.7	8.5	8.5
Willow Pass	4/29/74	9.5	6.5	7.3	7.3
SOUTH PLATTE BASIN					
Boulder Creek					
Alpine Camp	4/30/74	6.9	3.3	5.2	4.6
Big Thompson River					
Beaver Dam	4/29/74	7.1	3.6	3.6	4.8
Guard Station	4/29/74	6.9	4.7	3.2	4.4
Two Mile	4/29/74	9.1	4.9	4.9	5.4
Clear Creek					
Clear Creek	4/25/74	9.5	5.8	5.8	6.1
Hoop Creek	4/26/74	4.9	2.7	3.0	3.0
Cache La Poudre River					
Feather	4/26/74	10.1	8.2	5.5	8.1
Laramie Road	4/30/74	12.4	6.9	7.1	8.7
South Platte River					
Hoosier Pass	4/29/74	7.8	4.6	4.4	5.3
Kenosha Pass	4/30/74	4.4	2.9	3.4	3.6
ARKANSAS BASIN					
Arkansas River					
Garfield	4/29/74	6.7	4.7	5.6	4.4
Leadville	4/30/74	7.8	4.8	4.1	4.6
Twin Lakes Tunnel	4/30/74	4.5	2.9	3.0	2.9
RIO GRANDE BASIN - COLORADO					
Conejos River					
Mogote	4/24/74	10.7	8.1	6.2	8.4
Rio Grande					
Bristol View	4/25/74	6.1	5.4	5.4	4.9
La Veta Pass	4/24/74	11.9	10.4	9.5	11.4
ANIMAS-SAN JUAN BASINS					
Animas River					
Cascade	4/30/74	9.1	5.3	6.2	7.0
Mineral Creek	4/30/74	5.7	3.0	3.0	4.1
Molas Lake	4/30/74	9.4	3.2	6.4	6.2
Dolores River					
Dolores	4/29/74	19.6	18.8	19.0	12.0
Lizard Head	4/29/74	11.8	3.4	2.6	7.0
Rico	4/29/74	13.8	3.5	8.4	9.8
GUNNISON BASIN					
Gunnison River					
King	4/29/74	3.3	2.4	2.9	2.4
COLORADO BASIN (MAINSTEM)					
Blue River					
Blue River	4/29/74	4.2	2.6	3.4	3.0
Colorado River					
Berthoud Pass	4/26/74	3.9	3.0	3.1	3.0
Gore	4/30/74	4.9	4.2	3.0	4.1
Grand Mesa	4/29/74	12.5	9.9	13.3	11.6
Ranch Creek	4/30/74	8.7	5.7	5.8	6.2
Vail	4/26/74	12.3	8.3	8.9	10.1
Roaring Fork River					
Placita	4/30/74	9.3	7.7	7.6	7.6
YAMPA BASIN					
Yampa River					
Hahn's Peak	4/26/74	19.0	12.2	12.3	9.7

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LIST of COOPERATORS

The following organizations cooperate in snow surveys for the Colorado, Platte, Arkansas and Rio Grande watersheds. Many other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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Colorado State Engineer
New Mexico State Engineer
Nebraska State Engineer
Colorado State University Experiment Station
Rocky Mountain Forest and Range Experiment Station

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Colorado River Water Conservation District

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